

CRF Errors Corrected by the STIC Systems Branch

PG 7/10

Serial Number: 10/018706

CRF Processing Date: 1/17/2002  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC staff)

**ENTERED**

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

☐ Deleted extra, invalid, headings used by an applicant, specifically:

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

☐ Inserted mandatory headings, specifically: \_\_\_\_\_

☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

☒ Other: Seq 5 - corrected spelling of "Artificial"

## RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/018,706

TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J018706.raw

```

4 <110> APPLICANT: Thonnard, Joelle
6 <120> TITLE OF INVENTION: Cloning of BASB110 Antigen From
7   Moraxella (Branhamella) Catarrhalis
10 <130> FILE REFERENCE: BM45394
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/018,706
C--> 12 <141> CURRENT FILING DATE: 2001-12-13
12 <150> PRIOR APPLICATION NUMBER: 9915031.0
13 <151> PRIOR FILING DATE: 1999-06-25
15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/05854
16 <151> PRIOR FILING DATE: 2000-06-23
18 <160> NUMBER OF SEQ ID NOS: 6
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 969
24 <212> TYPE: DNA
25 <213> ORGANISM: Moraxella catarrhalis
27 <400> SEQUENCE: 1
28 atgactgtga cgatagcaat caattcacaa aatcaaaaac ccatcaagcg attgggcttg      60
29 atttttgggtg tgatcaccac ttgcattttg gcaggatgtg ccagtaagcc aacctataat      120
30 agtacctcag gttcgggcag tcatcgctact tcagggttcag gtggtttggc aatagggttca      180
31 caggttatca cggacagtca gggcgtagca aatcgctatc aggtgaagca gggcgatact      240
32 gtcagtaaga ttgctcagcg ttatgggatta aattggcgtg agattggaca cattaataat      300
33 ctaaatagca gttatacgat ttatacaggt caatggctga ctttatggtc aggtgatctc      360
34 aaggtgcgtg agcgtagtat cagctctggg gtgaatacag ctcacacacc ttcgcctgtg      420
35 gcggttcagt caagcagacc accagtacag cagcatcctg ccgtacaaaa acccacgcca      480
36 cctgttggttg tggtaaaaaa acccacaccg actccgcctg tggttcagca gccagcacca      540
37 gttgccccac cagtgcacaga agcaccattt gccacgggta gctcaggggt gatgcaattt      600
38 cgctatcctg ttggtgcgac caatccagtg gttcgacgct ttggtacggc gacagtggcc      660
39 ggctcaactg ttaccagtaa tggcatgtgg ttttctggac gagatggcga ttaattaac      720
40 gccagtaatg caggcacagt cattcaagct gatcacaata tggacggggc gagtattgtg      780
41 attcagcata ccaatggatt tgtttcaagc tatatccata ttaaggacgc tcaagttaaa      840
42 acaggcgata cggtgcgtac cggtcagcgt attgcaagca tgaaaaatca gccaaagcgt      900
43 gcggcactat ttgaatttag aatttctaga aatggcgtgt atgttgatcc attgacagta      960
44 cttaaatag
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 322
48 <212> TYPE: PRT
49 <213> ORGANISM: Moraxella catarrhalis
51 <400> SEQUENCE: 2
52 Met Thr Val Thr Ile Ala Ile Asn Ser Gln Asn Gln Lys Pro Ile Lys
53 1 5 10 15
54 Arg Leu Gly Leu Ile Phe Gly Val Ile Thr Thr Cys Ile Leu Ala Gly
55 20 25 30
56 Cys Ala Ser Lys Pro Thr Tyr Asn Ser Thr Ser Gly Ser Gly Ser His
57 35 40 45
58 Arg Thr Ser Gly Ser Gly Gly Leu Ala Ile Gly Ser Gln Val Ile Thr
59 50 55 60

```

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60 Asp Ser Gln Gly Val Pro Asn Arg Tyr Gln Val Lys Gln Gly Asp Thr
61 65 70 75 80
62 Val Ser Lys Ile Ala Gln Arg Tyr Gly Leu Asn Trp Arg Glu Ile Gly
63 85 90 95
64 His Ile Asn Asn Leu Asn Ser Ser Tyr Thr Ile Tyr Thr Gly Gln Trp
65 100 105 110
66 Leu Thr Leu Trp Ser Gly Asp Leu Lys Val Arg Glu Arg Ser Ile Ser
67 115 120 125
68 Ser Gly Val Asn Thr Ala His Thr Pro Ser Pro Val Ala Val Gln Ser
69 130 135 140
70 Ser Arg Pro Pro Val Gln Gln His Pro Ala Val Gln Lys Pro Thr Pro
71 145 150 155 160
72 Pro Val Val Val Val Lys Lys Pro Thr Pro Thr Pro Pro Val Val Gln
73 165 170 175
74 Gln Pro Ala Pro Val Ala Pro Pro Val Thr Glu Ala Pro Phe Ala Thr
75 180 185 190
76 Gly Ser Ser Gly Val Met Gln Phe Arg Tyr Pro Val Gly Ala Thr Asn
77 195 200 205
78 Pro Val Val Arg Arg Phe Gly Thr Ala Thr Val Ala Gly Ser Thr Val
79 210 215 220
80 Thr Ser Asn Gly Met Trp Phe Ser Gly Arg Asp Gly Asp Leu Ile Asn
81 225 230 235 240
82 Ala Ser Asn Ala Gly Thr Val Ile Gln Ala Asp His Asn Met Asp Gly
83 245 250 255
84 Ala Ser Ile Val Ile Gln His Thr Asn Gly Phe Val Ser Ser Tyr Ile
85 260 265 270
86 His Ile Lys Asp Ala Gln Val Lys Thr Gly Asp Thr Val Arg Thr Gly
87 275 280 285
88 Gln Arg Ile Ala Ser Met Lys Asn Gln Pro Ser Gly Ala Ala Leu Phe
89 290 295 300
90 Glu Phe Arg Ile Ser Arg Asn Gly Val Tyr Val Asp Pro Leu Thr Val
91 305 310 315 320
92 Leu Lys

```

95 &lt;210&gt; SEQ ID NO: 3

96 &lt;211&gt; LENGTH: 966

97 &lt;212&gt; TYPE: DNA

98 &lt;213&gt; ORGANISM: Moraxella catarrhalis

100 &lt;400&gt; SEQUENCE: 3

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101 atgactgtga cgatagcaat caattcacaa aatcaaaaac ccatcaagcg attgggcttg 60
102 atttttggtg tgatcaccac ttgcattttg gcaggatgtg ccagtaagcc aacctataat 120
103 agtacctcag gttcgggcag tcatcgtaact tcaggttcag gtggtttggc aataggttca 180
104 caggttatca cggacagtca gggcgtagca aatcgctatc aggtgaagca gggcgatact 240
105 gtcagtaaga ttgctcagcg ttatggatta aattggcgtg agattggaca cattaataat 300
106 ctaaatagcg gttatacgat ttatacaggt caatggctga ctttatggtc aggtgatctc 360
107 aaggtgctg agcgtagtat cagctctggt gtgaatacag ctcacacacc ttcgcctgtg 420
108 gcggttcagt caagcagacc accagtacag cagcatcctg ccgtacaaaa acccagcca 480
109 cctgttgttg tggtaaaaaa acccagaccg actccgctg tggttcagca gccagacca 540
110 gttgccccac cagtgcaga agcaccattt gccacgggta gtcaggggt gatgcaattt 600
111 cgctatcctg ttggtgagac caatccagtg gttcgacgct ttggtacggc gacagtggcc 660

```

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```

112 ggctcaactg ttaccagtaa tggcatgtgg ttttctggac gagatggcga ttttaattaac 720
113 gccagtaatg caggcacagt cattcaagct gatcacaata tggacggggc gagtattgtg 780
114 attcagcata ccaatggatt tgtttcaagc tatatccata ttaaggacgc tcaagttaaa 840
115 acaggcgata cgggtgcgtac cggtcagcgt attgcaagca tgaaaaatca gccaaagcgg 900
116 gcggcactat ttgaatttag aatttctaga aatggcgtgt atgttgatcc attgacagta 960
117 cttaaa 966
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 322
121 <212> TYPE: PRT
122 <213> ORGANISM: Moraxella catarrhalis
124 <400> SEQUENCE: 4
125 Met Thr Val Thr Ile Ala Ile Asn Ser Gln Asn Gln Lys Pro Ile Lys
126 1 5 10 15
127 Arg Leu Gly Leu Ile Phe Gly Val Ile Thr Thr Cys Ile Leu Ala Gly
128 20 25 30
129 Cys Ala Ser Lys Pro Thr Tyr Asn Ser Thr Ser Gly Ser Gly Ser His
130 35 40 45
131 Arg Thr Ser Gly Ser Gly Gly Leu Ala Ile Gly Ser Gln Val Ile Thr
132 50 55 60
133 Asp Ser Gln Gly Val Pro Asn Arg Tyr Gln Val Lys Gln Gly Asp Thr
134 65 70 75 80
135 Val Ser Lys Ile Ala Gln Arg Tyr Gly Leu Asn Trp Arg Glu Ile Gly
136 85 90 95
137 His Ile Asn Asn Leu Asn Ser Gly Tyr Thr Ile Tyr Thr Gly Gln Trp
138 100 105 110
139 Leu Thr Leu Trp Ser Gly Asp Leu Lys Val Arg Glu Arg Ser Ile Ser
140 115 120 125
141 Ser Gly Val Asn Thr Ala His Thr Pro Ser Pro Val Ala Val Gln Ser
142 130 135 140
143 Ser Arg Pro Pro Val Gln Gln His Pro Ala Val Gln Lys Pro Thr Pro
144 145 150 155 160
145 Pro Val Val Val Val Lys Lys Pro Thr Pro Thr Pro Pro Val Val Gln
146 165 170 175
147 Gln Pro Ala Pro Val Ala Pro Pro Val Thr Glu Ala Pro Phe Ala Thr
148 180 185 190
149 Gly Ser Ser Gly Val Met Gln Phe Arg Tyr Pro Val Gly Ala Thr Asn
150 195 200 205
151 Pro Val Val Arg Arg Phe Gly Thr Ala Thr Val Ala Gly Ser Thr Val
152 210 215 220
153 Thr Ser Asn Gly Met Trp Phe Ser Gly Arg Asp Gly Asp Leu Ile Asn
154 225 230 235 240
155 Ala Ser Asn Ala Gly Thr Val Ile Gln Ala Asp His Asn Met Asp Gly
156 245 250 255
157 Ala Ser Ile Val Ile Gln His Thr Asn Gly Phe Val Ser Ser Tyr Ile
158 260 265 270
159 His Ile Lys Asp Ala Gln Val Lys Thr Gly Asp Thr Val Arg Thr Gly
160 275 280 285
161 Gln Arg Ile Ala Ser Met Lys Asn Gln Pro Ser Gly Ala Ala Leu Phe
162 290 295 300

```

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TIME: 08:17:50

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J018706.raw

163 Glu Phe Arg Ile Ser Arg Asn Gly Val Tyr Val Asp Pro Leu Thr Val  
164 305 310 315 320  
165 Leu Lys  
168 <210> SEQ ID NO: 5  
169 <211> LENGTH: 35  
170 <212> TYPE: DNA  
171 <213> ORGANISM: Artificial Sequence  
173 <220> FEATURE:  
174 <223> OTHER INFORMATION: Primer  
176 <400> SEQUENCE: 5  
177 aggcagagggc atatgactgt gacgatagca atcaa 35  
179 <210> SEQ ID NO: 6  
180 <211> LENGTH: 42  
181 <212> TYPE: DNA  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Primer  
187 <400> SEQUENCE: 6  
188 aggcagagggc tcgagtttaa gtactgtcaa tggatcaaca ta 42

VERIFICATION SUMMARY

DATE: 01/17/2002

PATENT APPLICATION: US/10/018,706

TIME: 08:17:51

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01172002\J018706.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date